

Nu-Metrics Traffic Analyzer Study

Computer Generated Summary

Report

City: City of Fairfax

Street: Virginia St. #1 Red

A study of vehicle traffic was conducted with HI-STAR unit number 1040. The study was done in the South Bound lane on Virginia St. using counter #1 Red as shown on attached drawing. The counter was placed 150 Ft. from Main St. The study began on 12/02/2003 at 12:00 PM and concluded on 12/05/2003 at 09:00 AM, lasting a total of 69 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 1,479 vehicles passed through the location with a peak volume of 55 on 12/02/2003 at 04:00 PM and a minimum volume of 0 on 12/05/2003 at 03:00 AM. The AADT Count for this study was 552.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1								
0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49
0	436	375	119	36	15	7	9	6

At least half of the vehicles were traveling in the 15 - 19 mph range or a lower speed. The average speed for all classified vehicles was 17 mph with 8.19 percent exceeding the posted speed of 25 mph. The HI-STAR found 3.16 percent of the total vehicles were traveling in excess of 35 mph. The mode speed for this traffic study was 10 mph and the 85th percentile was 22.10 mph.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2							
0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
918	65	22	5	1	0	2	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 983 which represents 97.00 percent of the total classified vehicles. The number of Small Trucks in the study was 22 which represents 2.20 percent of the total classified vehicles. The number of Trucks/Buses in the study was 5 which represents 0.50 percent of the total classified vehicles. The number of Tractor Trailers in the study was 3 which represents 0.30 percent of the total classified vehicles.

HEADWAY

During the peak time period, on 12/05/2003 at 09:00 AM the average headway between the vehicles

was 22.22 seconds. The slowest traffic period was on 12/05/2003 at 03:00 AM. During this slowest period, the average headway was 3600.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 29 and 74 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.